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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 2060.0140000/EKS/HCC/M-M | APPLICATION NO. 09/458,299 |
| | APPLICANT FIKES et al. | |
| | FILING DATE December 10, 1999 | GROUP 1644 |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| MD | AA1 | 5,200,320 | 04/06/1993 | Sette et al. | | | 12/07/1987 |
| MD | AB1 | 5,503,829 | 04/02/1996 | Ladant et al. | | | 11/07/1994 |
| MD | AC1 | 5,662,907 | 09/02/1997 | Kubo et al. | | | 01/25/1994 |
| MD | AD1 | 6,034,214 | 03/07/2000 | Boon et al. | | | 12/13/1994 |
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|------------------|-----|-----------------|------------|--------------------|-------|-----------|-------------|
| MD | AL1 | EP 0 044 710 A1 | 01/27/1982 | Europe | | | Yes No |
| MD | AM1 | EP 0 226 513 A1 | 06/24/1987 | Europe | | | Yes No |
| MD | AN1 | WO 92/02543 A1 | 02/20/1992 | WIPO | | | Yes No |
| MD | AO1 | WO 92/12996 A2 | 08/06/1992 | WIPO | | | Yes No |
| MD | AP1 | WO 92/21033 A1 | 11/26/1992 | WIPO Abstract only | | | Yes X No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| MD | AR | 1 | Aichele, P., et al., "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," J. Exp. Med. 171:1815-1820, Rockefeller University Press (1990) |
| MD | AS | 1 | Alexander, J., et al., "Derivation of HLA-A11/K ^b Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," J. Immunol. 159:4753-4761, The American Association of Immunologists (November 1997) |
| MD | AT | 1 | Bergmann, C.C., et al., "Differential Effects of Flanking Residues on Presentation of Epitopes from Chimeric Peptides," J. Virol. 68:5306-5310, American Society for Microbiology (August 1994) |

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| EXAMINER | MARIANNE DIBRINO, Ph.D. MD | DATE CONSIDERED | 6/10/04 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | |

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| MD | AL2 | WO 93/03764 A1 | 03/04/1993 | WIPO | | | Yes No |
| MD | AM2 | WO 94/03205 A1 | 02/17/1994 | WIPO | | | Yes No |
| MD | AN2 | WO 94/11738 A1 | 05/26/1994 | WIPO Abstract only | | | Yes No |
| MD | AO2 | WO 94/20127 A1 | 09/15/1994 | WIPO | | | Yes No |
| MD | AP2 | WO 96/03140 A1 | 02/08/1996 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| MD | AR | 2 | Bertoni, R., et al., "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," <i>J. Clin. Invest.</i> 100:503-513, The American Society for Clinical Investigation, Inc. (August 1997) |
| MD | AS | 2 | Bertoni, R., et al., "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," <i>J. Immunol.</i> 161:4447-4455, American Association of Immunologists (October 1998) |
| MD | AT | 2 | Bjorkman, P.J., et al., "Structure of the human class I histocompatibility antigen, HLA-A2," <i>Nature</i> 329:506-512, Macmillan Publishers, Ltd. (1987) |

MARILYN DIBRINO, Ph.D.




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| EXAMINER | MD | DATE CONSIDERED | 4/10/04 |
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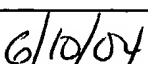
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| | AN | | | | | | Yes No |
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| | AP | | | | | | Yes No |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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|  | AR | 3 | Bjorkman, P.J., et al., "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," <i>Nature</i> 329:512-518, Macmillan Publishers, Ltd. (1987) |
|  | AS | 3 | Buus, S., et al., "Autologous Peptides Constitutively Occupy the Antigen Binding Site on Ia," <i>Science</i> 242:1045-1047, American Association for the Advancement of Science (1988) |
|  | AT | 3 | Carreno, B.M., et al., "HLA-B37 and HLA-A2.1 molecules bind largely nonoverlapping sets of peptides," <i>Proc. Natl. Acad. Sci. USA</i> 87:3420-3424, National Academy Press (1990) |

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FORM PTO-1449

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ATTY. DOCKET NO.
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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| MD | AR | 4 | Corr, M., et al., "Endogenous Peptides of a Soluble Major Histocompatibility Complex Class I Molecule, H-2L ₁ : Sequence Motif, Quantitative Binding, and Molecular Modeling of the Complex," <i>J. Exp. Med.</i> 176:1681-1692, Rockefeller University Press (December 1992) |
| MD | AS | 4 | De Bruijn, M.L.H., et al., "Peptide loading of empty major histocompatibility complex molecules on RMA-S cells allows the induction of primary cytotoxic T lymphocyte responses," <i>Eur. J. Immunol.</i> 21:2963-2970, VCH Verlagsgesellschaft mbH (1991) |
| MD | AT | 4 | Del Val, M., et al., "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," <i>Cell</i> 66:1145-1153, Cell Press (1991) |

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MARIANNE DIBRINO, Ph.D.

DATE CONSIDERED

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|----|----|---|---|
| MO | AR | 5 | Deres, K., et al., "In vivo priming of virus-specific cytotoxic T lymphocytes with synthetic lipopeptide vaccine," <i>Nature</i> 342:561-564, Macmillan Publishers, Ltd. (1989) |
| MO | AS | 5 | DiBrino, M., et al., "HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs," <i>J. Immunol.</i> 151:5930-5935, The Association of Immunologists (December 1993) |
| MO | AT | 5 | DiBrino, M., et al., "Endogenous peptides bound to HLA-A3 possess a specific combination of anchor residues that permit identification of potential antigenic peptides," <i>Proc. Natl. Acad. Sci. USA</i> 90:1508-1512, National Academy Press (February 1993) |

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| EXAMINER | MARIANNE DIBRINO, Ph.D. | DATE CONSIDERED | 6/10/04 |
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
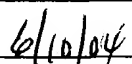
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)




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|---|----|---|---|
|  | AR | 6 | Ding, Y.-H., et al., "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," <i>Immunity</i> 8:403-11, Cell Press (April 1998) |
|  | AS | 6 | Eisenlohr, L.C., et al., "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 175:481-487, The Rockefeller University Press (February 1992) |
|  | AT | 6 | Engelhard, V.H., "Structure of peptides associated with MHC Class I molecules," <i>Curr. Opin. Immunol.</i> 6:13-23, Current Biology, Ltd. (February 1994) |


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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
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|  | AR | 2 | Falk, K., et al., "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules," <i>Nature</i> 351:290-296, Macmillan Publishers, Ltd. (1991) | | | | |
|  | AS | 2 | Falk, K., et al., "MHC peptide motif register. Peptide motifs of HLA-B35 and -B37 molecules," <i>Immunogenetics</i> 38:161-162, Springer-Verlag (April 1993) | | | | |
|  | AT | 2 | Falk, K., et al., "Allele-specific peptide ligand motifs of HLA-C molecules," <i>Proc. Natl. Acad. Sci. USA</i> 90:12005-12009, National Academy Press (December 1993) | | | | |

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

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|  | AR | 8 | Falk, K., et al., "Pool sequencing of natural HLA-DR, DQ, and DP ligands reveals detailed peptide motifs, constraints of processing, and general rules," <i>Immunogenetics</i> 39:230-242, Springer-Verlag (February 1994) |
|  | AS | 8 | Falk, K., et al., "Peptide motifs of HLA-A1, -A11, -A31, and -A33 molecules," <i>Immunogenetics</i> 40:238-241, Springer-Verlag (July 1994) |
|  | AT | 8 | Foon, K.A., "Biological Response Modifiers: The New Immunotherapy," <i>Cancer Res.</i> 49:1621-1639, American Association for Cancer Research (1989) |

EXAMINER

MARIANNE DIDRINO, Ph.D.

DATE CONSIDERED

MD 6/6/99 MD 6/10/04

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| MD | AR | 2 | Geysen, H.M., <i>et al.</i> , "Cognitive Features of Continuous Antigenic Determinants," <i>J. Mol. Recognit.</i> 1:32-41, Heyden & Sons, Ltd. (1988) |
| MD | AS | 2 | Guo, H.-C., <i>et al.</i> , "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," <i>Nature</i> 360:364-366, Macmillan Publishers, Ltd. (November 1992) |
| MD | AT | 2 | Henderson, R.A., <i>et al.</i> , "HLA-A2.1-Associated Peptides from a Mutant Cell Line: A Second Pathway of Antigen Presentation," <i>Science</i> 255:1264-1266, American Association for the Advancement of Science (March 1992) |

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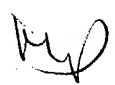


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | AR | <u>10</u> | Hill, A., <i>et al.</i> , "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," <i>Eur. J. Immunol.</i> 25:18-24, VCH Verlagsgesellschaft mbH (January 1995) |
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~~MAHARAJA DEBINO, Ph.D.~~

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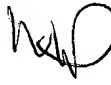

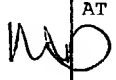
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|  | AR | <u>11</u> | Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K ^B -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," <i>Eur. J. Immunol.</i> 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992) |
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
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|  | AR | <u>12</u> | Kast, W.M., et al., "Protection against lethal Sendai virus infection by in vivo priming of virus-specific cytotoxic T lymphocytes with a free synthetic peptide," <i>Proc. Natl. Acad. Sci. USA</i> 88:2283-2287, National Academy Press (1991) |
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|  | AR | <u>13</u> | Lipford, G.B., <i>et al.</i> , "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K ^b Binding Motif," <i>J. Immunol.</i> 150:1212-1222, The American Association of Immunologists (February 1993) |
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|  | AR | <u>14</u> | Morrison, J., et al., "Identification of the nonamer peptide from influenza A matrix protein and the role of pockets of HLA-A2 in its recognition by cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 22:903-907, VCH Verlagsgesellschaft mbH (April 1992) |
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MARIANNE DIDRICK, Ph.D.

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|  | AR | <u>15</u> | Pamer, E.G., <i>et al.</i> , "Precise prediction of a dominant class I MHC-restricted epitome of <i>Listeria monocytogenes</i> ," <i>Nature</i> 353:852-855, Macmillan Publishers, Ltd. (1991) |
|  | AS | <u>15</u> | Parham, P., <i>et al.</i> , "The Origins of HLA-A,B,C Polymorphism," <i>Immunol. Rev.</i> 143:141-180, Munksgaard (February 1995) |
|  | AT | <u>15</u> | Parker, K.C., <i>et al.</i> , "Peptide Binding to HLA-A2 and HLA-B27 Isolated from <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 267:5451-5459, American Society for Biochemistry and Molecular Biology, Inc. (March 1992) |

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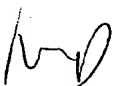

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|  | AR | <u>16</u> | Parker, K.C., et al., "Sequence motifs important for peptide binding to the human MHC class I molecule, HLA-A2," <i>J. Immunol.</i> 149:3580-3587, American Association of Immunologists (December 1992) |
|  | AS | <u>16</u> | Rammensee, H.-G., et al., "Peptides Naturally Presented by MHC Class I Molecules," <i>Annu. Rev. Immunol.</i> 11:213-244, Annual Reviews, Inc. (January 1993) |
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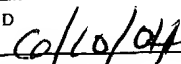
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|  | AR | <u>17</u> | Reddehase, M.J., et al., "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature</i> 337:651-653, Macmillan Publishers, Ltd. (1989) |
|  | AS | <u>17</u> | Romero, P., et al., "H-2K ^d -restricted Antigenic Peptides Share a Simple Binding Motif," <i>J. Exp. Med.</i> 174:603-612, Rockefeller University Press (1991) |
|  | AT | <u>17</u> | Rothbard, J.B., "Major histocompatibility complex-peptide interactions," <i>Curr. Opin. Immunol.</i> 2:99-105, Current Biology, Ltd. (1989) |

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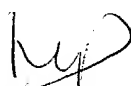


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|  | AR | <u>18</u> | Röttschke, O., et al., "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," <i>Nature</i> 348:252-254, Macmillan Publishers, Ltd. (1990) |
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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | | | | ATTY. DOCKET NO. 2060.0140000/EKS/HCC/M-M | | APPLICATION NO. 09/458,299 | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AL | | | | | | Yes No |
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| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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| EXAMINER | MARIANNE LIBRINO, Ph.D. | DATE CONSIDERED | |
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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

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|  | AR | 21 | Sette, A., et al., "Random association between the peptide repertoire of A2.1 class I and several different DR class II molecules," <i>J. Immunol.</i> 147:3893-3900, The American Association of Immunologists (1991) |
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|  | AT | 21 | Shastri, N., et al., "Presentation of Endogenous Peptide/MHC Class I Complexes Is Profoundly Influenced by Specific C-Terminal Flanking Residues," <i>J. Immunol.</i> 155: 4339-4346, The American Association of Immunologists (November 1995) |

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| | AP | | | | | | Yes No |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
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|  | AR | 22 | Sherman, L.A., et al., "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," J. Exp. Med. 175:1221-1226, The Rockefeller University Press (May 1992) | | | | |
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| EXAMINER | MARIANNE DIBRINO, Ph.D.  | DATE CONSIDERED | 6/10/04 |
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|  | AR | <u>23</u> | Threlkeld, S.C., et al., "Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A3-like Superfamily. Implications for Vaccine Development," <i>J. Immunol.</i> 159:1648-1657, The American Association of Immunologists (August 1997) |
|  | AS | <u>23</u> | Wentworth, P.A., et al., "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," <i>Eur. J. Immunol.</i> 26:97-101, VCH Verlagsgesellschaft mbH (January 1996) |
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MARIANNE DIBRINO, Ph.D. 

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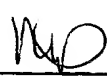

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| | APPLICANT FIKES <i>et al.</i> | |
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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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|  | AR | 24 | Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," <i>Adv. Immunol.</i> 52:1-123, Academic Press (July 1992) |
|  | AS | 24 | York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," <i>Annu. Rev. Immunol.</i> 14:369-396, Annual Reviews, Inc. (April 1996) |
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| EXAMINER | MARIANNE DIBRINO, Ph.D. | DATE CONSIDERED | 6/10/99 |
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| | APPLICANT FIKES et al. | |
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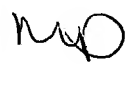
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|  | AR | 25 | Parker, K.C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," J. Immunol. 152:163-175, The American Association of Immunologists (January 1994) |
| | AS | 25 | Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513. |
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EXAMINER

MARIANNE DIBRINO, Ph.D.

DATE CONSIDERED

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
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| | AL | | | | | | Yes No |
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| WFO | AR | 26 | Dialog File 351, Accession No. 9888606, Derwent WPI English language abstract for WO 94/11738. |
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MARIANNE DIBRINO, Ph.D. *MD*

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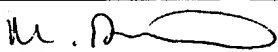
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| | APPLICANT FIKES et al. | |
| | FILING DATE December 10, 1999 | GROUP 1644 |

| U.S. PATENT DOCUMENTS | | | | | | | |
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| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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| NO | AS | 27 | Kawashima, I., et al., "Identification of HLA-A3-restricted Cytotoxic T Lymphocyte Epitopes from Carcinoembryonic Antigen and HER-2/neu by Primary in Vitro Immunization with Peptide-pulsed Dendritic Cells," <i>Cancer Res.</i> 59:431-435, American Association for Cancer Research (January 1999) |
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FORM PTO-1449
FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
 2060.0140000/EKS/HCC/M-M

APPLICATION NO.
 09/458,299

APPLICANT
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FILING DATE
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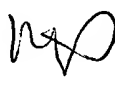


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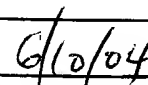
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|  | AS | <u>28</u> | Toes, R.E.M., et al., "Enhancement of Tumor Outgrowth Through CTL Tolerization After Peptide Vaccination Is Avoided by Peptide Presentation on Dendritic Cells," <i>J. Immunol.</i> 160:4449-4456, The American Association of Immunologists (May 1998) |
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| MO | AE1 | 5,783,567 | 07/21/1998 | Hedley et al. | | | 01/22/1997 |
| MO | AF1 | 5,876,712 | 03/02/1999 | Cheever et al. | | | 06/06/1995 |
| MO | AG1 | 6,037,135 | 03/14/2000 | Kubo et al. | | | 11/29/1993 |
| MO | AH1 | 6,075,122 | 06/13/2000 | Cheever et al. | | | 06/06/1995 |
| MO | AI1 | 2002/0168374 A1 | 11/14/2002 | Kubo et al. | | | 03/20/1997 |
| MO | AJ1 | 2002/0177694 A1 | 11/28/2002 | Sette et al. | | | 02/03/1998 |
| MO | AK1 | 2002/0098197 A1 | 07/25/2002 | Sette et al. | | | 05/30/1995 |

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| | AL | | | | | | Yes No |
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| | AR | | |
| MO | AS | 26 | Boon, T., "Tumor antigens recognized by cytolytic T lymphocytes: present perspectives for specific immunotherapy," <i>Int. J. Cancer</i> 54:177-180, Wiley-Liss, Inc. (May 1993) |
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| FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 2060.0140000/EKS/HCC/M-M | APPLICATION NO. 09/458,299 |
| | APPLICANT FIKES et al. | |
| | FILING DATE December 10, 1999 | GROUP 1644 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|----|--------------------|------|------|-------|---------------|-------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |
| | AJ | | | | | | |
| | AK | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|----|--------------------|------|---------|-------|---------------|-------------|
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|----|----|----|--|
| MD | AR | 29 | Copy of co-pending U.S. application 08/344,824, inventors Sette et al., filed November 23, 1994 (NOT PUBLISHED). |
| MD | AS | 29 | Copy of co-pending U.S. application 08/347,610, inventors Kubo et al., filed December 1, 1994 (NOT PUBLISHED). |
| MD | AT | 29 | Copy of co-pending U.S. application 09/017,524, inventors Kubo et al., filed February 3, 1998 (NOT PUBLISHED). |

| | | | |
|---|-----------------------------|-----------------|---------|
| EXAMINER | <i>M. h. [signature]</i> MD | DATE CONSIDERED | 6/10/04 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | |

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| | AA | | | | | | |
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|---------------------|----|--------------------|------|---------|-------|---------------|-------------|
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | | | | | |
|--|----|----|---|--|--|--|--|
| | AR | 30 | Copy of co-pending U.S. application 10/149,138, inventors Fikes et al., filed December 11, 2002 (NOT PUBLISHED). | | | | |
| | AS | | | | | | |
| | AT | | | | | | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.